

DEVICE FOR CONTROLLING ARTIFICIAL SPHINCTERAL MUSCLE AND TRANSPORTABLE PROTESE CONTAINING SAME

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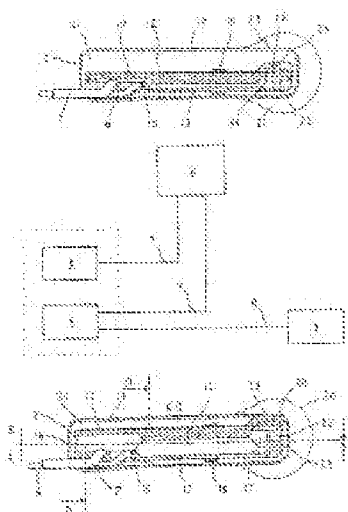
EP0426545 (A1)
EP0426545 (B1)
US5078676 (A)
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Abstract of JP 3158154 (A)

PURPOSE: To provide a simple, highly reliable and economic structure by providing a first chamber formed of a balloon, a second chamber formed by two plates, and a returning device of elastic band provided on the circumferences of the plates.

CONSTITUTION: A control device 2 has a rigid top plate 12 and a rigid bottom plate 13, and a balloon 14 filled with non-compressive fluid which is arranged between them, and allowed to communicate with an actuator device 3 through a flexible tube 6 by a connecting body 15. The plates are mutually opposed, and enclosed by a flexible membrane body 15 forming a bellows, and the membrane body is adhesively bonded to the end parts of the plates. The plates 12, 13 and the bellows 16 form a chamber 17 partially occupied by the balloon 14, which is filled with an operating fluid, and allowed to communicate with a block device 7 through a flexible tube 7. An elastic band 18 is laid around the assembly formed of the plates 12, 13 and the bellows 16, the plates are mutually forced to reduce the capacity of the chamber 17, whereby the balloon 14 is compressed.



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